

IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) An activity monitor comprising:  
a measurement unit including a plurality of motion sensors,  
operable to produce respective sensor signals indicative of motion  
experienced thereby; and  
\*  
a processor for receiving on an output channel of the  
measurement unit the sensor signals from the measurement unit and  
operable to process the signals in accordance with a predetermined  
method,  
characterized in that the measurement unit has a single output  
channel and is operable to output the sensor signals in turn on the  
output channel, and  
characterized in that the measurement unit and the processor

~~are both attached to an object being monitored by the activity monitor,~~

wherein the measurement unit is operable to operate the output channel discontinuously in time during output of each motion sensor output signal.

2. (Currently Amended) ~~An~~ The activity monitor as claimed in claim 1, wherein the motion sensors are accelerometers.

3. (Currently Amended) ~~An~~ The activity monitor as claimed in claim 1, wherein the motion sensors are arranged to be mutually orthogonal.

4. (Currently Amended) ~~An~~ The activity monitor as claimed in claim 2 or 3, wherein the processor is operable to sample the output channel of the measurement unit discontinuously in time.

Claim 5 (Canceled)

6. (Currently Amended) A method of monitoring activity of an object using a plurality of motion sensors which are operable to produce respective sensor signals indicative of motion experienced thereby, the method comprising the acts of:

receiving monitoring the sensor signals discontinuously in time; and

processing the sensor signals in accordance with a predetermined method, characterized in that the sensor signals are monitored in turn via a single channel at the object being monitored.

7. (Currently Amended) A-The method as claimed in claim 6, wherein the output of the further comprising providing the sensor signals on a single channel is monitored discontinuously in time, wherein the monitoring act monitors in turn the sensor signals on the single channel.

Claim 8 (Canceled)

9. (Currently Amended) An activity monitor comprising:  
a measurement unit including a plurality of motion sensors,  
operable to produce respective sensor signals indicative of motion  
experienced thereby; and

a processor for receiving the sensor signals from the  
measurement unit and operable to process the signals in accordance  
with a predetermined method,

~~characterized in that the measurement unit has a single output  
channel and is operable to output the sensor signals in turn on the  
output channel, and~~

~~characterized in that wherein~~ the processor is operable to  
sample the output channel of the measurement unit discontinuously  
in time.

10. (Currently Amended) An activity monitor as claimed in  
claim 9, wherein the motion sensors are accelerometers.

11. (Currently Amended) An activity monitor as claimed in  
claim 9, wherein the motion sensors are arranged to be mutually

orthogonal.

12. (Currently Amended) An The activity monitor as claimed in claim 9, wherein the measurement unit is operable to operate the output channel discontinuously in time during output of each motion sensor output signal.

13. (New) The activity monitor of claim 9, wherein the measurement unit has a single output channel and is operable to output the sensor signals in turn on the output channel.

14. (New) The method of claim 6, wherein the processing act samples a single output channel of a measurement unit discontinuously in time, said single output channel including the sensor signals from the plurality of the motion sensors.

15. (New) The method of claim 6, wherein the processing act intermittently samples an output of a measurement unit that outputs the sensor signals.

16. (New) A method of monitoring activity using a plurality of motion sensors which are operable to produce respective sensor signals indicative of motion experienced thereby, the method comprising the acts of:

intermittently monitoring the sensor signals; and  
processing the sensor signals.

17. (New) The method of claim 16, wherein the processing act intermittently samples a single output channel of a measurement unit, said single output channel including the sensor signals from the plurality of the motion sensors.

18. (New) An activity monitor comprising:  
a measurement unit configured to produce sensor signals  
indicative of motion; and  
a processor configured to intermittently monitor the sensor  
signals.

19. (New) The activity monitor of claim 18, wherein the measurement unit is connected to the processor through a single channel, the sensor signals being provided to the processor on the single output channel.

20. (New) The activity monitor of claim 18, wherein the measurement unit comprises a plurality of motion sensors for producing the sensor signals.